

slip 10/6/6

# Work Order ID 70001



Page 1

Wednesday, May 25, 2011 11:30:15 AM

Item ID: D350-689-019

Accept



Setup Start



Revision ID:

Stop



Item Name: Control Guard

Start Date: 5/25/2011 Start Qty: 3.00



Cust Item ID:

Required Date: 6/3/2011 Req'd Qty: 3.00

Customer:

Reference:

Approvals:

Process Plan:

*[Signature]*

Date: 11-05-25

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

Draw Nbr

Revision Nbr

DSI 9493

A

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D350-689-019 CHG001

*Suloc6/6*

*HJ for CL 11-5-30*

110

0.00



Pick Kit

Packaging

Memo

0.00

Packaging

*11/6/6 SL (3x)*

120

0.00



QC4- 100% Inspect kits for completeness

QC

Memo

0.00

Quality Control

*Suloc6/6*

*(+3)*

| W/O: |      | WORK ORDER CHANGES |    |      |     |                                     |                          |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE   | By | Date | Qty | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|      |      |                    |    |      |     |                                     |                          |
|      |      |                    |    |      |     |                                     |                          |

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| NCR: |      | WORK ORDER NON-CONFORMANCE (NCR) |                             |                                 |                |                           |                       |                          |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC<br>Section A   | Corrective Action Section B |                                 |                | Verification<br>Section C | Approval<br>Chief Eng | Approval<br>QC Inspector |
|      |      |                                  | Initial<br>Chief Eng        | Action Description<br>Chief Eng | Sign &<br>Date |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |

**NOTE:** Date & initial all entries

**Work Order ID 70001**

Wednesday, May 25, 2011 11:30:15 AM



Page 2

Item ID: D350-689-019

Accept



Setup Start



Revision ID:

Stop



Item Name: Control Guard

Start Date: 5/25/2011 Start Qty: 3.00



Cust Item ID:

Required Date: 6/3/2011 Req'd Qty: 3.00



Customer:

Reference:

Run Start



Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Stop



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

| Sequence ID/<br>Work Center ID | Operation<br>Description   | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| 130<br>                        | Packaging  | 0.00                 |         |        |              |               |               |                  |                |
| Packaging                      | <b>Memo</b>  | 0.00                 |         |        |              |               |               |                  |                |
| Packaging                      | Identify and pack for shipping as per PPP D350-689-019<br>Location: <u>130</u><br>PPP Rev: <u>mf</u> |                      |         |        |              |               |               |                  |                |
| 140<br>                        | QC21 - Final Inspection - Work Order Release   | 0.00                 |         |        |              |               |               |                  |                |
| QC                             | <b>Memo</b>  | 0.00                 |         |        |              |               |               |                  |                |
| Quality Control                |  |                      |         |        |              |               |               |                  |                |

11/6/65

11/6/79

MF  
11-06-06

| W/O: |      | WORK ORDER CHANGES |    |      |     |                                     |                          |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE   | By | Date | Qty | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|      |      |                    |    |      |     |                                     |                          |
|      |      |                    |    |      |     |                                     |                          |

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| NCR: |      | WORK ORDER NON-CONFORMANCE (NCR) |                             |                                 |                |                           |                       |                          |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC<br>Section A   | Corrective Action Section B |                                 |                | Verification<br>Section C | Approval<br>Chief Eng | Approval<br>QC Inspector |
|      |      |                                  | Initial<br>Chief Eng        | Action Description<br>Chief Eng | Sign &<br>Date |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |

**NOTE:** Date & initial all entries

# Picklist Print

Wednesday, May 25, 2011 11:30:22 AM

Page 1

Work Order ID: 70001

Parent Item: D350-689-019

Parent Item Name: Control Guard



Start Date: 5/25/2011

Required Date: 6/3/2011

Start Qty: 3.00

Required Qty: 3.00

Comments: IPP Rev:A new issue DD 10.04.23 verified by:EC

| Component Item ID/<br>Item Name  | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|--|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| AN4-12A<br><br>Bolt  |                        | Purchased     | No          |                     |                  | 110             | Each               | 220.0000       | 1           |              |               |                |        |
| <div> <div>Location</div> <div>ST357</div> <div>115422</div> <div>117508</div> </div> <div> <div>Loc Qty</div> <div>220</div> <div>120</div> <div>100</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> <div></div> </div>  |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| AN4-20A<br><br>Bolt  |                        | Purchased     | No          |                     |                  | 110             | Each               | 601.0000       | 1           |              |               |                |        |
| <div> <div>Location</div> <div>ST359</div> <div>115936</div> <div>116419</div> <div>117514</div> </div> <div> <div>Loc Qty</div> <div>601</div> <div>101</div> <div>200</div> <div>300</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> <div></div> <div></div> </div> |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| D3084-3<br><br>Strut   |                        | Manufactured  | No          |                     |                  | 110             | Each               | 0.0000         | 1           |              |               |                |        |

B 70002 11/6/6 SP 3

| W/O: |      | WORK ORDER CHANGES |    |      |     |                                     |                          |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE   | By | Date | Qty | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|      |      |                    |    |      |     |                                     |                          |
|      |      |                    |    |      |     |                                     |                          |

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| NCR: |      | WORK ORDER NON-CONFORMANCE (NCR) |                             |                                 |                |                           |                       |                          |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC<br>Section A   | Corrective Action Section B |                                 |                | Verification<br>Section C | Approval<br>Chief Eng | Approval<br>QC Inspector |
|      |      |                                  | Initial<br>Chief Eng        | Action Description<br>Chief Eng | Sign &<br>Date |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |

**NOTE:** Date & initial all entries

# Picklist Print

Wednesday, May 25, 2011 11:30:22 AM

Page 2

Work Order ID: 70001

Parent Item: D350-689-019

Parent Item Name: Control Guard

Start Date: 5/25/2011

Required Date: 6/3/2011

Start Qty: 3.00

Required Qty: 3.00

MS21042-4

Purchased

No

110

Each

252.0000

2

6



USE MS21042L4



M116823

SP

Location

Loc Qty

Loc Code

ST299

252

100743

9

5389

78

5461

3

6844

19

7690

24

8182

115

9229

4

NAS1149D0416J

Purchased

No

110

Each

269.0000

8



Washer



SP

Location

Loc Qty

Loc Code

ST298

269

114884

69

116513

200

21  
3

NAS43DD4-46N

Purchased

No

110

Each

75.0000

2



SPACER



11/6/68

38

Location

Loc Qty

Loc Code

ST279

75

111886

75

6

| W/O: |      | WORK ORDER CHANGES |    |      |     |                                     |                          |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE   | By | Date | Qty | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|      |      |                    |    |      |     |                                     |                          |
|      |      |                    |    |      |     |                                     |                          |

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| NCR: |      | WORK ORDER NON-CONFORMANCE (NCR) |                             |                                 |                |                           |                       |                          |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC<br>Section A   | Corrective Action Section B |                                 |                | Verification<br>Section C | Approval<br>Chief Eng | Approval<br>QC Inspector |
|      |      |                                  | Initial<br>Chief Eng        | Action Description<br>Chief Eng | Sign &<br>Date |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |
|      |      |                                  |                             |                                 |                |                           |                       |                          |

**NOTE:** Date & initial all entries



# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-689 REV. A

REF TCCA STC: SH02-33

REF FAA STC: SR01620NY

REF EASA STC: EASA.IM.R.S.01453

REF BRAZILIAN STC: 2005S03-09

**REFERENCE ONLY**

## PURPOSE:

TO PROVIDE AN OPTIONAL CONTROL GUARD KIT TO BE INSTALLED ON THE D350-689-011/-021 DUAL HIGH BACK SEAT INSTALLATIONS.

## CHANGE:

OPTIONAL D350-689-019 CONTROL GUARD KIT ADDED AS DETAILED BELOW. WHEN INSTALLING THE AN4 BOLTS IN THE DART SEAT, DRILL QTY (2) Ø0.257" HOLES PER INSTRUCTIONS (SEE SHEET 2 DETAIL A OF THIS SERVICE INSTRUCTION FOR REFERENCE).

| Qty<br>-011 | Qty<br>-013 | Qty<br>-019 | Qty<br>-021 | Qty<br>-023 | Qty<br>-041 | Qty<br>-043 | Part Number   | Description   |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---|
| X           |             |             |             |             |             |             | D350-689-011  | DUAL HIGH BACK SEAT INSTALLATION, LH                  |
| 1           | X           |             |             |             |             |             | D350-689-013  | FLOOR PROVISIONS KIT                                  |
|             |             | X           |             |             |             |             | D350-689-019  | CONTROL GUARD KIT                                     |
|             |             |             | X           |             |             |             | D350-689-021  | DUAL HIGH BACK SEAT INSTALLATION, LH (REF DSI 9419)   |
|             |             |             | 1           | X           |             |             | D350-689-023  | ENERGY ATTENUATING FLOOR PROVISION KIT (REF DSI 9419) |
| 1           |             |             |             |             | X           |             | D350-689-041  | DUAL HIGH BACK SEAT ASSEMBLY                          |
|             |             |             | 1           |             |             | X           | D350-689-043  | DUAL HIGH BACK SEAT ASSEMBLY (REF DSI 9419)           |
|             |             | 1           |             |             |             |             | D3084-3       | STRUT   |
|             |             | 2           |             |             |             |             | NAS43DD4-46N  | SPACER  |
|             |             | 1           |             |             |             |             | AN4-12A       | BOLT  |
|             |             | 1           |             |             |             |             | AN4-20A       | BOLT  |
|             |             | 2           |             |             |             |             | MS21042-4     | NUT (OR MS24042L4)                                    |
|             |             | 8           |             |             |             |             | NAS1149D0416J | WASHER  |

## INSTRUCTIONS:

1. LOCATE LOWER HOLE (SEE FIGURE 1 SHEET 2) AND DRILL Ø0.257" HOLE.
  2. USING STRUT P/N D3084-3 AS TEMPLATE, TEMPORARILY FASTEN TO LOWER HOLE, LOCATE UPPER HOLE ON CENTER LINE OF TUBE. REF FIGURE 1.
  3. DRILL Ø0.257" HOLE.
  4. REMOVE BURRS AND SHARP EDGES ON BOTH HOLES AND TOUCH UP PER ICA-D350-689 CHAPTER 5.2 SECTION 8.
  5. INSTALL STRUT USING HARDWARE SHOWN. TORQUE FASTENERS TO 50-70 in-lbs.
- LONGER AN4 BOLTS ARE ACCEPTABLE TO ENSURE A MINIMUM OF 1.5-2 THREADS IN SAFETY.

## WEIGHT AND BALANCE:



| Installation  | Weight            | LATERAL            |                           | LONGITUDINAL      |                       |
|---|-------------------|--------------------|---------------------------|-------------------|-----------------------|
|   |                   | Arm                | Moment                    | Arm               | Moment                |
| D350-689-019 CONTROL GUARD KIT. (Seat's Fwd position) | 0.5 lb<br>0.23 kg | -9.0 in<br>-0.23 m | - 4.5 in-lb<br>-0.05 m-kG | 60.7 in<br>1.54 m | 30 in-lb<br>0.35 m-kG |
| D350-689-019 CONTROL GUARD KIT. (Seat's Aft position) | 0.5 lb<br>0.23 kg | -9.0 in<br>-0.23 m | - 4.5 in-lb<br>-0.05 m-kG | 64.7 in<br>1.64 m | 32 in-lb<br>0.38 m-kG |

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

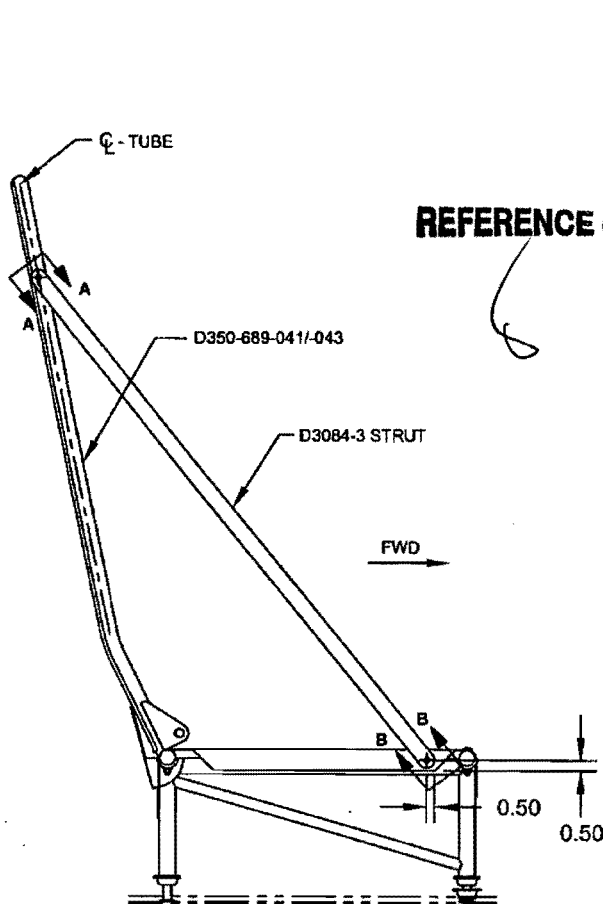
APPROVED

BY:   
D. SHEPHERD (DE # 02)

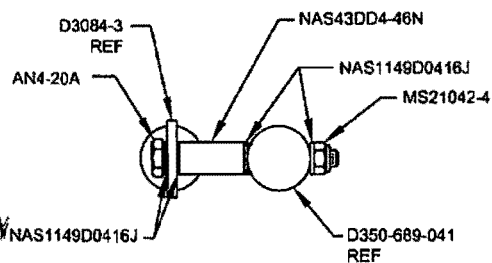
DATE: 10.04.01  
CERT. NO.: SH02-33  
ISSUE NO.: 1

|            |   |  |              |
|------------|---|--|--------------|
| A          | NEW ISSUE.  | JPH  | 10.04.01     |
| REV.       | DESCRIPTION   | BY   | DATE         |
| DESIGN     |  | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA   |              |
| DRAWN      |  |  |              |
| CHECKED    |  | DRAWING NO.  | REV. A       |
| MFG. APPR. | N/A   | DSI 9493   | SHEET 1 OF 2 |
| APPROVED   |  | TITLE  | SCALE        |
| DE APPR.   |  | INSTALLATION OF CONTROL GUARD  | NTS          |
| DATE       | 10.04.01  | COPYRIGHT © 2010 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. |              |

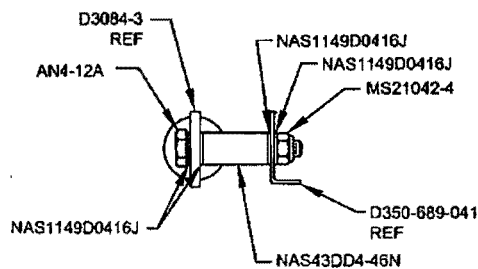




REFERENCE ONLY



**SECTION VIEW A-A**  
ROTATED



**SECTION VIEW B-B**  
ROTATED

**FIGURE 1**  
**D350-689-019 CONTROL GUARD KIT**  
(LOOKING OUTBOARD)

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY: *[Signature]*  
D. SHEPHERD (DE # 02)

DATE: 10.04.01  
CERT. NO.: SH02-33  
ISSUE NO.: 1

|            |                    |  |              |
|------------|--------------------|--|--------------|
| DESIGN     | 1                  | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA   |              |
| DRAWN      | 1                  |  |              |
| CHECKED    | <i>[Signature]</i> | DRAWING NO.  | REV. A       |
| MFG. APPR. | N/A                | DSI 9493   | SHEET 2 OF 2 |
| APPROVED   | <i>[Signature]</i> | TITLE  | SCALE        |
| DE APPR.   | <i>[Signature]</i> | INSTALLATION OF CONTROL GUARD  | NTS          |
| DATE       | 10.04.01           | COPYRIGHT © 2010 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. |              |

